

Work Order ID 150012

August 19, 2016 10:05:36 AM

150012

Page 1

Item ID: D407-549-017

Accept

N900040100

Setup

Start

NS1

Revision ID:

Stop

NS2

Item Name: High Slope Avionics Console

Start Date: 8/19/2016 Start Qty: 4.00

4

Cust Item ID:

Required Date: 8/31/2016 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: SLA Date: AUG 19 2016

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr	SEP 15 2016							

100 Document Control 0.00
100
DC Memo 0.00
Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPPD407-549-017 CHG002

4x 28 9-89 SEP 16 2016

110 Pick Kit 0.00
110
Packaging Memo 0.00
Packaging

4 DAS 6 9-89 SEP 15 2016 PC

120 QC4- 100% Inspect kits for completeness 0.00
120
QC Memo 0.00
Quality Control

4x 28 9-89 SEP 16 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Work Order ID 150012

August 19, 2016 10:05:36 AM

150012

Page 2

Item ID: D407-549-017**Accept*****N900040100*****Setup Start *NS1*****Revision ID:****Stop *NS2*****Item Name:** High Slope Avionics Console**Start Date:** 8/19/2016 **Start Qty:** 4.00***4*****Cust Item ID:****Required Date:** 8/31/2016 **Req'd Qty:** 4.00***4*****Customer:****Reference:****Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____**Run Start *NR1*****QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____**Stop *NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D407-549-017 Location: FG020								
	X3								
	1x sold								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

4x 28 SEP 16 2016
9-89DAS
21
9-89

SEP 16 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

August 19, 2016 10:05:33 AM

Page 1

Work Order ID: 150012

150012

Parent Item: D407-549-017

D407-549-017

Parent Item Name: High Slope Avionics Console

Start Date: 8/19/2016

Required Date: 8/31/2016

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:A New Issue 06-01-03 JLM
10.06.30 fixe qty of washer & screw DD verf:EC

IPP Rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	----------------	--------------	---------------	----------------	--------

D2163		Manufactured	No			110	Each	52.0000	1	4		DAS 6 9-89	PC
-------	--	--------------	----	--	--	-----	------	---------	---	---	--	------------------	----

D2163

Cap Angle

Location	Loc Qty	Loc Code
----------	---------	----------

ST004	19	
37740	9	4
86960	10	
ST012a	33	
104655	33	

D407-547-047

Manufactured No

110

Each

0.0000

1

4

150013

DAS
6
9-89

PC

D407-547-047

Console High Slope

D206-547-11

Manufactured No

110

Each

0.0000

2

8

147585M

150014x

DAS
6
9-89

PC

D206-547-11

Angle, Console

MS20470AD4-5

Purchased No

110

Each

2,032.000

28

112

DAS
6
9-89

PC

MS20470AD4-5

RIVET, UNIVERSAL HEAD

Location	Loc Qty	Loc Code
----------	---------	----------

GA	560	
m133860	560	
ST310	1472	112
m134654	1472	

SEP 15 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Description Work Order Deviation				Disposition																																																													
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

August 19, 2016 10:05:34 AM

Page 2

Work Order ID: 150012

150012

Parent Item: D407-549-017

D407-549-017

Parent Item Name: High Slope Avionics Console

Start Date: 8/19/2016

Required Date: 8/31/2016

Start Qty: 4.00

Required Qty: 4.00

NAS1149D0332J

Purchased

No

110

Each

1,292.000

16

64

NAS1149D0332J

Washer

**

135526

DAS
9-80
PC

Location

Loc Qty

Loc Code

CA

6

m129682

6

FP001

522

m134848

522

GA

467

m135046

467

ST264

297

m135046

297

MS27039-1-08

Purchased

No

110

Each

358.0000

16

64

MS27039-1-08

Screw

**

Location

Loc Qty

Loc Code

FP001

69

m128636

69

GA

72

125654

1

m128636

71

ST281

217

m134762

217

DAS
9-80
SEP 15 2016

August 19, 2016 10:05:34 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

4. WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-549-011	2 lbs 0.907 kg	0 in 0 m	0 lbs-in 0 kg-m	48.0 in 1.22 m	96.00 lbs-in 1.11 kg-m
D206-549-013	2 lbs 0.907 kg	0 in 0 m	0 lbs-in 0 kg-m	48.0 in 1.22 m	96.00 lbs-in 1.11 kg-m
D407-549-015	2 lbs 0.907 kg	0 in 0 m	0 lbs-in 0 kg-m	48.0 in 1.22 m	96.00 lbs-in 1.11 kg-m
D407-549-017	2 lbs 0.907 kg	0 in 0 m	0 lbs-in 0 kg-m	48.0 in 1.22 m	96.00 lbs-in 1.11 kg-m

5. PARTS LIST

-011	-013	-015	-017	Part Number	Description
X				D206-549-011	LOW SLOPE CONSOLE INSTALLATION, 206
	X			D206-549-013	HIGH SLOPE CONSOLE INSTALLATION, 206
		X		D407-549-015	LOW SLOPE CONSOLE INSTALLATION, 407
			X	D407-549-017	HIGH SLOPE CONSOLE INSTALLATION, 407
REF	REF	REF	REF	D1038-58	FASTENER RAIL
REF	REF	REF	REF	D1038-58B	FASTENER RAIL, BLACK
1	1	1	1	D2163	CAP ANGLE
1				D206-547-041	206 LOW SLOPE CONSOLE ASSEMBLY
	1			D206-547-043	206 HIGH SLOPE CONSOLE ASSEMBLY
		1		D407-547-045	407 LOW SLOPE CONSOLE ASSEMBLY
			1	D407-547-047	407 HIGH SLOPE CONSOLE ASSEMBLY
2	2	2	2	D206-547-11	ANGLE
28	28	28	28	MS20470AD4-5	RIVET
14	14	16	16	AN960JD10L	WASHER
14	14	16	16	MS27039-1-08	SCREW

Work Order ID 150012

August 19, 2016 10:05:36 AM

150012

Item ID: D407-549-017

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: High Slope Avionics Console

Start Date: 8/19/2016 Start Qty: 4.00

4

Cust Item ID:

Required Date: 8/31/2016 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: SLA Date: AUG 19 2016

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

SEP 15 2016

100

Document Control

0.00

DAS

21

9-89

SEP 15 2016***100***

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPPD407-549-017 CHG002

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control